## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



ET-53 May 1935

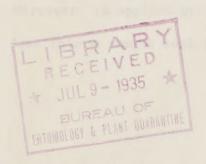
## A COVERED SIFTER FOR SEPARATING INSECTS FROM HOST MATERIAL

By Heber C. Donohoe, Division of Fruit Insects, Bureau of Entomology and Plant Quarantine, U. S. Department of Agriculture

The examination in the laboratory of samples of raisins for the purpose of estimating the population of the raisin moth, <u>Ephestia figulilella</u> Greg., has presented difficulties, both because of the time consumed and on account of the high percentage of insects overlooked. The method finally evolved, described below, has greatly simplified the work.

A sheet-iron corn popper with sliding cover, commonly available in variety stores, is modified for use as a covered screening device. Nearly all of the lid and bottom are cut out, leaving one-half inch rims, and the openings are covered with wire cloth of any desired mesh, attached to the inside of the rims with liquid solder.

With the basket about one-half filled with stemmed raisins, the lid is closed and the sifter shaken while grasped by the handle and by the front end. The device is most efficient when turned at intervals so as to use the top and bottom screens alternately. Vigorous shaking for a few seconds dislodges and shakes out the insects onto a contrasting background where they may be readily separated from the fine debris. Repeated checks on this method of removal have shown from 94 to 100 percent efficiency.



ET-53

## A COVENED SIFTER FOR SEPARATING INSECTS STOM DOST MATERIAL

Ey Haber C. Douchoe, Division of Fruit Insects.
Burean of Entencionalogy and Plant Quarantine,
U. S. Department of Agriculture

the purpose of outination in the Indonesian of the regain acts. Dimetra the purpose of outinating the population of the regain acts. Dimetra finally are a second of the hip percentage of the night percentage of issues over the night percentage of issues over the night percentage of issues over inched the work

A sheet-from corn popper with sliding open; commonly swilshle in variety stores, is modified for any as as a covered sapering levice. Heariy sil of the lid and bottom are out out, leaving one-salt inchastas, and the openings are covered eith wire sloth of any desired pach, attached to the inside of the rims with liquid solder.

With the basket about one-half filled with stemmed raisins, the lid is closed and the sifter shaken while strapped by the handle and by the front end. The device is most efficient when turned at intervals so as to use the top and bottom screens alternately. Vigorone shaken ing for a few seconds distodnes and shakes out the intervals onto a contrasting background where they may be readily separated from the fine debria Repeated obtains on this method of removal have shown from St to 100 percent efficiency.

